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10/721,725	11/25/2003	Boris Dorfman	555255012645 5769	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/721,725	DORFMAN ET AL.			
Office Action Summary	Examiner	Art Unit			
,	Disler Paul	2615			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D. (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
,					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-37 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-37 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal	Date			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2/18/05 and 9/27/04.	6) Other:	r αιστι πρριινατιψη			

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DETAILED ACTION

Response to Amendment

a. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

In regard to the applicant' argument that the prior art "acoustic device" fail to disclose the limitation of comprising a microprocessor, a device microphone, and an auxilliary output device and a speaker as amended by the applicant. The examiner considers the argument will write this office action in regard to the applicant's amendment in further clarifying the claim that the device comprises a microprocessor, a device microphone, and an auxilliary output device and a speaker with each coupled to the device.

Note, that in the previous office action, the examiner consider the auxiliary output/input as simply any additional <u>channel in which signals were sent to or originate from in arriving to destination</u>.

In regard to the combination of Iseberg, in which the applicant disagree in writing the rejection for reason of different technical field and no reason for combination, the examiner is respectfully disagree. The determination of whether a reference is form a nonanalogous art is twofold. First, field of endeavor and <u>second is it reasonably pertinent to the particular problem, with which the inventor was involved.</u> in further consideration, the examiner with proper motivation do agree that combination is appropriate, in short the examiner respectfully disagree.

In short, the argument of the applicant has been favorably considered and the examiner will examined the information disclosed in claims with respect to arguments of applicant. As result of further clarification/ amendment made by the applicant the examiner has reviewed the amendment and will as result will reconsider the claim for any patentability subject matter.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claim 1,8,11-14,20-37 is rejected under 35 U.S.C. 103(a) as being anticipated over Kates ("US 2002/0176584 A1") and Rader et al. ("2003/0064746 A1").

Re claim 1, Kates et al. disclosed a method of testing the audio performance of an acoustic device, the acoustic device comprising a microprocessor, a device microphone ("fig.1, page 1[0008] line 3-4 hearing aid to be evaluated"), the method comprising steps of: producing an electric audio signal ("fig.1 (104,108"); providing the electric audio signal as an input to an external speaker and outputting an acoustic audio signal representation thereof ("fig.1 (108); page 1[0008] line 5-6"); providing the acoustic audio signal outputted from the external speaker as an input to the device microphone and outputting a further electric audio signal representation thereof ("fig.1/(154)"). While, Kates disclose of the above, He fail to disclose of the acoustic device comprising an auxiliary output device couple to the microprocessor. However, Rader et al. disclose of the system in which the acoustic device comprising an auxiliary output device couple to the microprocessor ("fig.2/(213)") for the purpose of providing the user with alternative communication channels. Thus, taking the combined teaching of Kates and Rader as a whole, it would have been obvious for one of the ordinary skill in the art to modify Kates by incorporating the

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acoustic device comprising an auxiliary output device couple to the microprocessor for the purpose of providing the user with alternative communication channels.

The combined teaching of Kates and Rader as a whole, would have incorporate the teaching of routing the further electric audio signal using the microprocessor from the device microphone to the auxiliary output device and outputting it therefrom ("fig.1A(156); fig.1B(110) routed to (116); page 1[0008] line 7-9"); and analyzing the further electric audio signal outputted from the auxiliary output device ("fig.1B(104,116); page 1[0008] line 9-13").

Re claim 21, the method of claim 1, wherein the auxiliary output device is an electrical connector, including outputting the further electrical signal through the electrical connector ("Rader, page 3 [0038] line 4-8").

Re claim 8, the method of claim 1 wherein the electrical audio signal is produced externally to the acoustic device and the further electric audio signal is analyzed externally to the acoustic device ("fig.1B").

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Re claim 11, the method of claim 1, However, Kates and Rader et al. as a whole in last teaching, fail to disclose of the further limitation wherein the acoustic device is a hand-held voice-enabled wireless communications device having an RF Transceiver coupled to the microprocessor. However, Rader in new teaching disclose of the acoustic system in which he further disclose an audio system in which the acoustic device is a hand-held voice-enabled wireless communications device having an RF Transceiver coupled to the microprocessor ("fig.2(202-203") for the purpose of enabling the user to transmit and manage audio signals. Thus, taking the combined teaching of kates and Rader et al. as a whole, it would have been obvious for one of the ordinary skill in the art to modify kates and Rader et al. with the last teaching, as a whole, by incorporating the acoustic device is a hand-held voice-enabled wireless communications device having an RF Transceiver coupled to the microprocessor for the purpose of enabling the user to transmit and manage audio signals.

Re claim 13, the method of claim 1 wherein the auxiliary output device is an auxiliary input/output device ("Rader, fig. 2(213)") that is coupled to provide electric signals to the device speaker ("fig.1A/(158,160"), the method comprising further steps of: producing

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a speaker test electric audio signal ("fig.1B(104-108"); receiving the speaker test electric audio signal at the auxiliary input/output device ("Rader, fig.2(213)"); routing the speaker test electric audio signal using the microprocessor from the auxiliary input/output device to the device speaker ("Kate, fig.1A (156-160)") and outputting therefrom a device speaker acoustic audio signal representation of the speaker test electric audio signal("fig.1A(160"); fig.1B(110 to 114)"); providing the device speaker acoustic audio signal outputted from the device speaker as an input to an external microphone and outputting a device speaker electric audio signal representation thereof ("fig.1B (118)"); and analyzing the device speaker electric audio signal outputted from the external microphone ("fig.1/(104,116)").

Re claim 12, the method of claim 11 wherein the acoustic device is enabled for two-way wireless data communications ("fig.2").

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Re claim 14, Kates disclose a method of testing the audio performance of an acoustic device, wherein the acoustic device comprises a microprocessor; a device speaker; each couple to the microprocessor ("kates, fig.1A"), However kates fail to disclose of the further limitation of the device also comprise of an auxiliary input device couple to the microprocessor. But, Rader et al. disclose of the system in which the acoustic device comprising an auxiliary input device couple to the microprocessor ("fig.2/(213)") for the purpose of providing the user with alternative communication channels. Thus, taking the combined teaching of Kates and Rader as a whole, it would have been obvious for one of the ordinary skill in the art to modify Kates by incorporating the acoustic device comprising an auxiliary input device couple to the microprocessor for the purpose of providing the user with alternative communication channels.

Now, the combined teaching of kates and Rader et al. further teach of the method comprising steps of: producing a speaker test electric audio signal; providing the speaker test electric audio signal as an input to the auxiliary input device ("kates, fig. 1B, see claim 1"); routing the speaker test electric audio signal using the microprocessor from the auxiliary input device to the device speaker ("fig. 1B"); outputting from the device speaker a device speaker acoustic audio signal representation of the speaker test electric audio signal ("kate, fig. 1A-1B"); providing the device speaker acoustic

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audio signal outputted from the device speaker as an input to an external microphone and outputting a device speaker electric audio signal representation thereof; and analyzing the device speaker electric audio signal outputted from the external microphone ("fig.18").

Re claim 20, has been analyzed and rejected with respect to claim 8 respectively

Re claim 22, the method of claim 14, wherein the auxiliary input device is an electrical connector, including inputting the speaker test electrical audio signal through the electric connector ("Rader; fig.2(213)").

Re claim 23, Kates disclose a system for testing the audio performance of acoustic devices, the system comprising: an external speaker for receiving an electric audio signal as input and outputting an acoustic audio signal representation thereof ("fig.1B/(108)"); and an acoustic device comprising a microprocessor, a device microphone for receiving as an acoustic audio signal output from the external speaker, each of the device microphone couple to the microprocessor ("fig.1A/microprocessors (156) each coupled/microphone(154) couple)");

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However, Kates fail to disclose of the further limitation of the acoustic device comprise a memory and auxiliary output device being couple to the microprocessor. But, Rader et al. disclose of the system in which further include limitation of the acoustic device comprise a memory and auxiliary output device being couple to the microprocessor ("fig.2/(208,213)") for the purpose of providing the user with alternative communication channels and customizing a user hearing profile based on his hearing profile. Thus, taking the combine teaching of kates and now Rader as a whole, it would have been obvious for one of the ordinary skill in the art to modify Kates by incorporating the limitation of the acoustic device comprise a memory and auxiliary output device being couple to the microprocessor for the purpose of providing the user with alternative communication channels and customizing a user hearing profile based on his hearing profile.

The combine teaching of kates and Rader et al. as a whole, further teach of the memory having data and instructions stored thereon to configure the microprocessor ("page 3[0037]"): received a further electric audio signal representation of the acoustic audio signal from the device microphone as input; and route the further electric audio signal to the auxiliary output device for output therefrom to the test system for analysis ("Kates, fig.1A-1B/ signals route to (114) for analysis").

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Re claim 24, have been analyzed and rejected with respect to claim 21.

Re claims 25-26 have been analyzed and rejected with respect to claims 6-7 respectively.

Re claims 27-28 have been analyzed and rejected with respect to claims 11-12 respectively.

Re claim 29, the system of claim 23, further comprising: an audio generator coupled to the external speaker for producing the electric audio signal and providing the electric audio signal to the external speaker ("kates, fig.1B (104,108)"); and an audio analyzer coupled to the auxiliary output device for receiving and analyzing the further electric audio signal ("fig.1B(104)").

Re claim 30, the system of claim 23, further comprising: an external microphone for receiving an acoustic audio signal as an input ("fig.1b(118)"); wherein the auxiliary output device is an auxiliary input/output device coupled to further provide electric audio signals

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to the device speaker ("Fig.1B(108 to 110)"); wherein the memory having further data and instructions stored thereon to configure the microprocessor to ("Rader; fig.2(209)"): receive a speaker test electric audio signal at the auxiliary input/output device; route the speaker test electric audio signal from the auxiliary input/output device to the speaker ("fig.1A-1B"); wherein the device speaker output a device speaker acoustic audio signal representation of the speaker test electric audio signal for input to the external microphone ("fig.1B(118)"); and wherein the external microphone outputs a device speaker electric audio signal representation thereof for analysis on an external test system ("fig.1B(104)").

Re claim 31, Kates disclose a system for testing the audio performance of acoustic devices, the system comprising: an acoustic device comprising a microprocessor, a device speaker couple to the microprocessor ("fig.1A"), However, kates fail to disclose of the acoustic device comprises a memory and auxiliary input device couple to the microprocessor.

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However, Kates fail to disclose of the further limitation of the acoustic device comprise a memory and auxiliary input device being couple to the microprocessor. But, Rader et al. disclose of the system in which further include limitation of the acoustic device comprise a memory and auxiliary input device being couple to the microprocessor ("fig.2/(208,213)") for the purpose of providing the user with alternative communication channels and customizing a user hearing profile based on his hearing profile. Thus, taking the combine teaching of kates and now Rader as a whole, it would have been obvious for one of the ordinary skill in the art to modify Kates by incorporating the limitation of the acoustic device comprise a memory and auxiliary input device being couple to the microprocessor for the purpose of providing the user with alternative communication channels and customizing a user hearing profile based on his hearing profile.

The combined teaching of Kates and Rader et al. as a whole, teach of the memory having data and instructions stored thereon to configure the microprocessor ("page 3[0037]") to: receive a speaker test electric audio signal at the auxiliary input device ("fig.1B (108,110)"); and route the speaker test electric audio signal form the auxiliary input device to the device speaker for outputting a device speaker acoustic audio signal representation of the speaker test electric audio ("fig.1B(110,116)"); and an external microphone for receiving the device acoustic audio signal from the device speakers as

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input, and outputting a device speaker electric audio signal representation thereof for analysis on an external test system ("fig.1B(118,104)").

Re claim 37, the combined teaching of kates and rader et al. as a whole, teach the system of claim 31, further comprising: an audio generator coupled to the auxiliary input for producing the speaker test electric audio signal and providing the speaker test electric audio signal to the auxiliary input device; and an audio analyzer coupled to the external microphone for receiving and analyzing the device speaker electric audio signal ("kates, see fig. 1B).

Re claims 32-36 have been analyzed and rejected with respect to claims 24-28 respectively.

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Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 2-4,9-10,15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kates ("US 2002/0176584 A1") and Rader et al. ("US 2003/0064746 A1") and further in view of Harrel et al. ("US 2003/0073408 A1").

Re claim 2, the method of claim 1, However, Kates and Rader et al. as a whole, fail to disclose of the details wherein the further electric audio signal outputted from the auxiliary output device is compared to the electric audio signal produced. However, Harrel et al. disclose an audio system in which the further electric audio signal outputted from the auxiliary output device is compared to the electric audio signal produced ("page 1[0012] line 10-12;fig.1/signal from(26) is compared with pick up signal at (32)") for the purpose of detecting whether the device speakers are functioning. Thus, taking the combined teaching of Kates and Rader et al. and now Harrel et al. as a whole, it would have been obvious for one of the ordinary skill in the art to modify Kates and Rader et al. as a whole, by incorporating the further electric audio signal outputted from the auxiliary output device is

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compared to the electric audio signal produced for the purpose of detecting whether the device speakers are functioning.

Re claim 3, the method of claim 1, However, Kates and Rader et al. as a whole, fail to disclose of the further details wherein at least one signal characteristic of the further electric audio signal is compared to a predefined test limit. However, Harrel et al. disclose an audio system in which he disclose of the further details wherein at least one signal characteristic of the further electric audio signal is compared to a predefined test limit ("page 2[0014] line 1-2-signal's amplitude as characteristic for predefined limit in analysis and also page 5[0058] line 1-2") for the purpose of detecting whether the device speakers are functioning. Thus, taking the combined teaching of Kates and Rader et al. and now Harrel et al. as a whole, it would have been obvious for one of the ordinary skill in the art to modify Kates and Rader et al. as a whole, by incorporating the further details wherein at least one signal characteristic of the further electric audio signal is compared to a predefined test limit for the purpose of detecting whether the device speakers are functioning.

Re claim 4, the method of claim 1, However, Kates and Rader et al. as a whole, fail to disclose of the details of wherein in a plurality of characteristics of the further electric audio signal are

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compared to predefined test limits for a plurality of audio signal characteristics selected from the group including signal amplitude, frequency response, and harmonic distortion. But, Harrel disclose of an audio system in which he disclose of the further limitation of wherein in a plurality of characteristics("page 1[0012] line 17-18") of the further electric audio signal are compared to predefined test limits("page 5[0058]line 1-2 and further fig.12/S1640; page 3[0030] line 11-13 predetermined parameters/specifications") for a plurality of audio signal characteristics selected from the group including signal amplitude ("page 2[0014] line 1-2-signal's amplitude as characteristic"), frequency response("page 1[0005] line 6; page 1[0006] line 7-10-frequency response test") and harmonic distortion ("fig.2; page 3[0038] line 4-6") for the purpose of detecting whether the device speakers are functioning. Thus, taking the combined teaching of Kates and Rader et al. and Harrel as a whole, it would have been obvious for one of the ordinary skill in the art to modify kates and Rader et al. as a whole, by incorporating he details of wherein in a plurality of characteristics of the further electric audio signal are compared to predefined test limits for a plurality of audio signal characteristics selected from the group including signal amplitude, frequency response, and harmonic distortion for the purpose of detecting whether the device speakers are functioning.

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Re claims 15-17 in regard to speaker audio signal, have been analyzed and rejected with respect to claim 2-4 respectively.

Re claim 9, the method of claim 1, However, Kates and Rader et al. as a whole, fail to disclose of the further limitation of wherein the electrical audio signal produce represent single tone signal. However, Harrel disclose of a system in which he disclose of the further limitation of wherein the electrical audio signal produce represent single tone signal ("fig.1/28; page 2[0027] line 1-3-radio signal produce single tone signals") for the purpose of detecting whether the device speakers are functioning. Thus, taking the combined teaching of Kates and Rader et al. and Harrel as a whole, it would have been obvious for one of the ordinary skill in the art to modify Kates and Rader et al. as a whole, by incorporating the further details of wherein the electrical audio signal produce represent single tone signal for the purpose of detecting whether the device speakers are functioning.

Re claim 10, the method of claim 1, however, Kates and Rader et al. as a whole, fail to disclose of the limitation of wherein the electric audio signal produced represents a multitone signal. However, Harrel disclose a system in which he disclose of the further limitation of wherein the electric audio signal produced represents a

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multitone signal ("fig.1/28; page 2[0027] line 1-3-radio signal produce multinone signals"), thus taking the combined teaching of Kates and Rader et al. and Harrel as a whole, it would have been obvious for one of the ordinary skill in the art to modify Kates and Rader et al. as a whole, by incorporating the further limitation of wherein the electric audio signal produced represents a multitone signal for the purpose of detecting whether the device speakers are functioning.

6. Claim 5,6-7,18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable Kates ("US 2002/0176584 A1') and Rader et al. and further in view of Iseberg et al. ("US 7,050,592 B1").

Re claim 5, the method of claim 1, However, Kates and Rader et al. as a whole, fail to disclose connecting the external speaker to the device microphone with a seal. But, Iseberg et al. disclose of a hearing test device in which a seal was created ("col.1 line 65-67") for the purpose of determining proper placement of the test.

Thus taking the combined teaching of Kates and Rader et al.and

Iseberg et al. as whole, it would have been obvious for one of

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ordinary skill in the art to modify Kates and Rader et al. as a whole, by incorporate the creating a seal for the purpose of determining proper placement of the test as taught by Iseberg et al.

Re claim 6, the method of claim 21, However, Kates and Rader et al. as a whole, fail to disclose the output device further includes a headset plug. However, a headset plug is commonly known and used in the art. Thus, it would have been obvious for one skill in the art to have the headset plug for the purpose of connecting/outputting audio signal. Official Notice is taken.

Re claim 7, with regard to serial port, have been analyzed and rejected with respect to claim 6 above.

Re claims 18-19, have been analyzed and rejected with respect to claim 6-7 above.

Conclusion

3. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from

of this final action and the advisory action is not mailed until after the end of the THREE-MONTH

shortened statutory period, then the shortened statutory period will expire on the date the advisory action

is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX

MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Disler Paul whose telephone number is 572-270-1187. The examiner can normally be

reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chin

Vivian can be reached on 571-272-7848. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative

or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-

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